

ABSTRACT OF THE DISCLOSURE

An apparatus and method for determining the presence of a trace species in a sample gas contained in a resonant cavity. The apparatus comprises at least one light source for generating radiation; a controller coupled to the at least one light source for controlling a frequency of the radiation, the controller varying the frequency of the radiation over a predetermined frequency range; and a processor coupled to the resonant cavity for determining a level of the trace species within the resonant cavity over the predetermined frequency range.